Annexure 2: GIS Requirements

i. **Coordinate System:**

Mandatory: The primary coordinate system used must be **Hartebeeshoek94_Lo23 (E-N) WKID:102564.** This is the national standard for South Africa and ensures compatibility with national datasets and other government agencies.

ii. **Metadata:**

- **Mandatory:** All geospatial data delivered as part of the tender must be accompanied by **compliant metadata**. This should adhere to the **South African National Standard for Geographic Information Metadata (SANS 16262)**.
- **Content:** Metadata should include comprehensive information about the data, such as:
    - **Title, description, and keywords**
    - **Date of creation and update**
    - **Data creator and owner**
    - **Coordinate system and projection**
    - **Data lineage and quality information**
    - **Access and use restrictions.**
    - **Format – GDB (Geodatabase with associated Feature Datasets and Feature Classes)**

iii. **Additional Recommendations:**

- **Data format:** Geodatabase must be provided with feature datasets.
- **Software compatibility:** Data must be created in recognised GIS software. Where any CAD software is used, the tenderer must ensure that all datasets are correctly converted and projected according to the coordinate system specified in Coordinate Systems Point 1, and that all files are exported to approved GIS formats prior to submission to the Municipality.
- **Data quality standards:** Attribute completeness (must be comprehensive and should include annexure which must contain a photograph (not older than March 2024) and a pdf/jpeg or tiff file with heritage significance or grading which must be aligned with the project specifications in Tender document.
- **Open data policy:** All Spatial Data associated with this project will be made publicly available and loaded onto the George Municipal GIS Public VIEWER upon project completion and adoption by George Municipal Council.

iv. **Resources:**

- South African National Standard for Geographic Information Metadata (SANS 16262): https://gazettes.africa/archive/za/2008/za-government-gazette-dated-2008-12-24-no-31734.pdf and National Geospatial Information System (NGIS): https://ngi.dalrrd.gov.za/